

University of Jordan & RWTH- Aachen online workshop- Report

| | |
|-------------------------------|-------------------|
| Event type | Workshop |
| WP Number | WP3, WP7 |
| WP Leader | NTUA, HTU |
| Event date | 23-06-2021 |
| Number of Participants | 53 |
| Total number of pages | 12 |

Project Coordinator

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Project website: <http://sites.ju.edu.jo/en/ECO-CAR/Home.aspx>



1 Event Description

The workshop was conducted online on the 23rd of June 2021.

The workshop started with a welcoming speech and an overview of the nature of the project, its objectives and the partners working on it by the project coordinator, Prof. Ahmed Al-Salaymeh from The University of Jordan.

This workshop was conducted in-cooperation between the University of Jordan and RWTH-Aachen in Germany.

“General Introduction to Batteries: Fundamentals and Applications” session was given by: Dr. Hussam Khasawneh from The University of Jordan.

“General Introduction to Batteries: Aging and Second Life” session was given by: Florian Ringbeck from RWTH-Aachen University.

A discussion panel was opened for participants to ask the lecturers.



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of the European Union

Dear Sir/Madam,

After Greetings,

The ECO-CAR project team, which is funded with support from the European Union within the Erasmus+ projects, has the honor to invite you to attend a workshop entitled “**Batteries**” to be held on **Wednesday 23-6-2021**, at 17:00 until 18:30, on the virtual platform (ZOOM), through the link below:

https://zoom.us/meeting/register/tJAucemqrjloHNDcnGCF0zWDCXI-Zp_FCdnW

Please click on the link above and register in advance.

Where the project aims to establish a training and technical diploma in the maintenance of electric and hybrid cars. The workshop includes giving an overview of the nature of the project, its objectives and the partners working in it, as well as other topics related to batteries that can be found in the file attached to this email, which includes the workshop agenda.

For any inquiries, please contact:

Email: eco-car@ju.edu.jo

Best Regards,
ECO-CAR Team

ERASMUS+ PROGRAMME
Project Number: 618509-EPP-1-2020-1-JO-EPPKA2-CBHE-JP

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3 Agenda



Vocational Training Diploma on Electrical and Hybrid Vehicles

The ECO-CAR Project team, which is funded with support from the European Union within the Erasmus+ projects, has the honor to invite you to attend the workshop scheduled to be held on
Wednesday 8-6-2021 at 17:00 until 18:30,
Via the virtual platform ZOOM:

[https://zoom.us/meeting/register/tJAucemqrjIoHNDcnGCF0zWDCXI-Zp_FCdnW](https://zoom.us/join/joinMeeting?meetingRef=618509-EPP-1-2020-1-JO-EPPKA2-CBHE-JP)

Please click on the link above and register in advance

| Day: Wednesday Date: 23.06.2021 Time (Amman Time): 17:00 – 18:30 | |
|--|--|
| 16:45 – 17:00 | Registration |
| 17:00 – 17:10 | Welcoming Speech and Overview of the ECO-CAR Project by: Prof. Ahmed Al-Salaymeh, General Project Coordinator at the University of Jordan |
| 17:10 – 17:40 | “General Introduction to Batteries: Fundamentals and Applications” By: Dr. Hussam Khasawneh, UJ |
| 17:40 – 18:10 | “General Introduction to Batteries: Aging and Second Life” By: Florian Ringbeck, RWTH-Aachen |
| 18:10 – 18:30 | Discussion |
| 18:30 | End of the Workshop |

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ERASMUS+ PROGRAMME

Project Number: 618509-EPP-1-2020-1-JO-EPPKA2-CBHE-JP

ECO-CAR:

Vocational Training Diploma on Electrical and Hybrid Vehicles

Introduction to Batteries Workshop

Agenda

The University of Jordan

Join Zoom Meeting

https://zoom.us/meeting/register/tJAucemqrjloHNDcnGCF0zWDCXI-Zp_FCdnW

Wednesday, June 23rd, 2021

17:00 – 18:30

(Amman time)

Wednesday, June 23rd, 2021

17:00 – 18:30

| | |
|----------------------|--|
| 16:45 - 17:00 | Registration |
| 17:00 - 17:10 | Welcoming Speech and Overview of the ECO-CAR Project by: Prof. Ahmed Al-Salaymeh, General Project Coordinator at the University of Jordan |

Batteries Workshop

Moderator of the sessions Eng. Rasha Albaik & Eng. Sara Al Twassi

| | |
|----------------------|--|
| 17:10 - 17:40 | "General Introduction to Batteries: Fundamentals and Applications" By: Dr. Hussam Khasawneh, UJ |
| 17:40 – 18:10 | "General Introduction to Batteries: Aging and Second Life" By: Florian Ringbeck, RWTH-Aachen |
| 18:10 – 18:30 | Discussion |
| 18:30 | End of the Workshop |

4 Poster



Introduction to Batteries Workshop

17:00-17:10
Welcoming Speech and Overview of the ECO-CAR Project.
By: Prof. Ahmed Al-Salaymeh-
General Project Coordinator,
University of Jordan

17:10-17:40
"General Introduction to Batteries: Fundamentals and Applications"
By: Dr. Hussam Khasawneh,
University of Jordan

17:40-18:10
"General Introduction to Batteries: Aging and Second Life"
By: Florian Ringbeck,
RWTH-Aachen University

18:10-18:30
Discussion

Date and Time:
Wednesday 23.06.2021
17:00-18:30 (Amman time)

Join us by ZOOM Meeting:
<https://zoom.us/join/9101762021>



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**For further information,
please contact us via:
Eco-car@ju.edu.jo**

5 ZOOM participants list

| First Name | Email | Registration Time |
|-------------------------------|--|-------------------|
| Bassam Al-Qusous | b.aboilyas123@gmail.com | 23-06-21 16:43 |
| Yousef Altaharwah | Yaltahar@nuct.edu.jo | 17-06-21 11:24 |
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| Waleed Nayfeh | Nayfeh@nuct.edu.jo | 23-06-21 17:01 |
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| Prof. Mohammad Hamdan | Mashamdan@yahoo.com | 23-06-21 17:06 |
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| Moussa Alsamara | Moussa1957@gmail.com | 22-06-21 18:55 |
| Rashed Abu Hammour | rabuhamm@nuct.edu.jo | 17-06-21 15:15 |
| Eman Abdelhafez | eman_eng2006@yahoo.com | 21-06-21 19:49 |
| Dr. Ahmad Mostafa | a.omar@ttu.edu.jo | 23-06-21 16:45 |
| Salman Ajib | salman.ajib@th-owl.de | 16-06-21 12:40 |
| Dr. Malik Alamayreh | malik.amaireh@zuj.edu.jo | 23-06-21 12:10 |
| Eng. Salaheddin Abu Yahya | seabuyahya@just.edu.jo | 23-06-21 17:01 |
| Alaa Shdefat | shdefat_alaa@yahoo.com | 23-06-21 13:01 |
| Akram Musa | akramusa@nuct.edu.jo | 23-06-21 17:00 |

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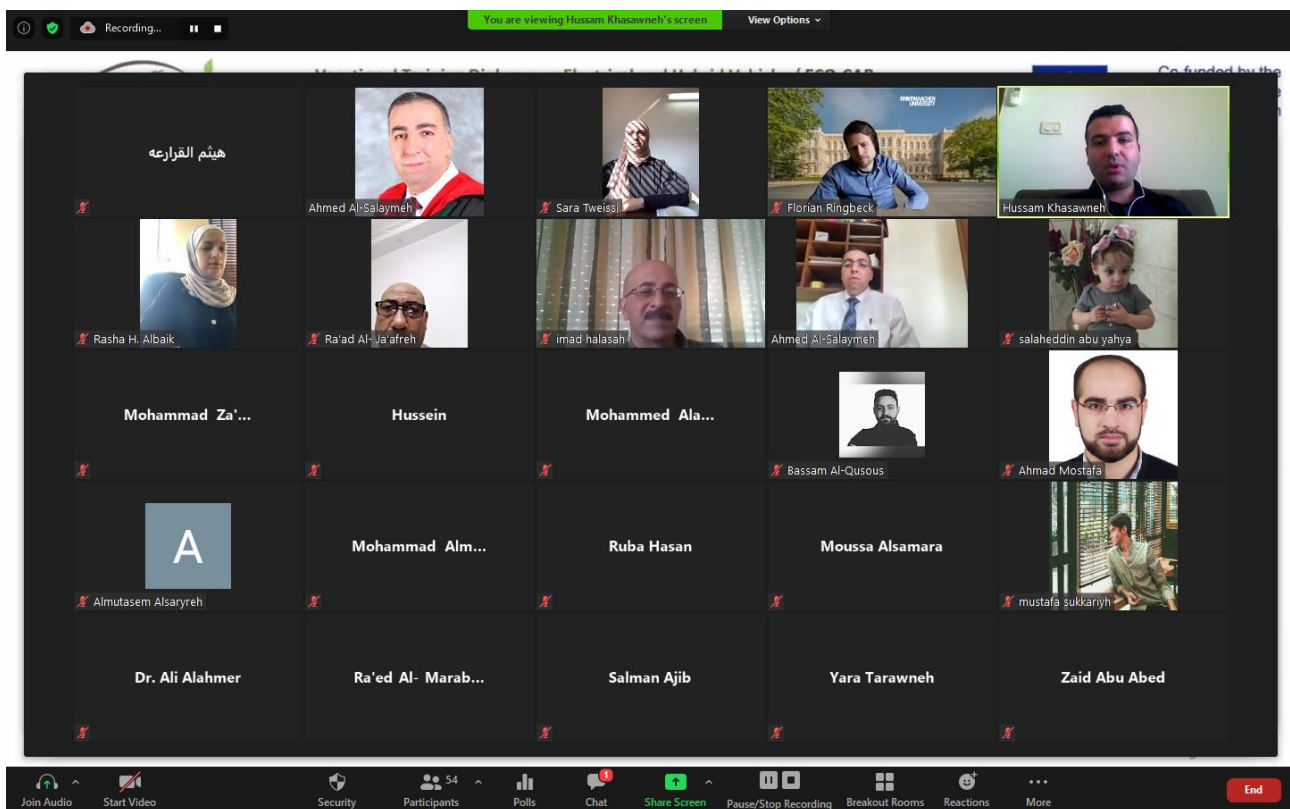
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Omer Maaith
Hala Alfaris
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Maaitah_noor@hotmail.com
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almutasem.alsaryreh1994@gmail.com
hassanjamal664@gmail.com

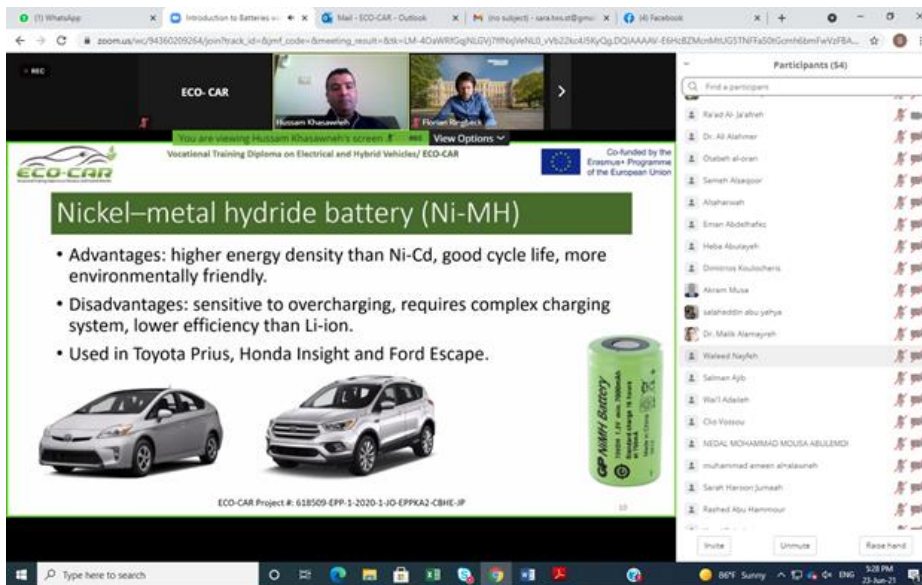
23-06-21 17:44
20-06-21 16:38
23-06-21 16:54

6 Photos



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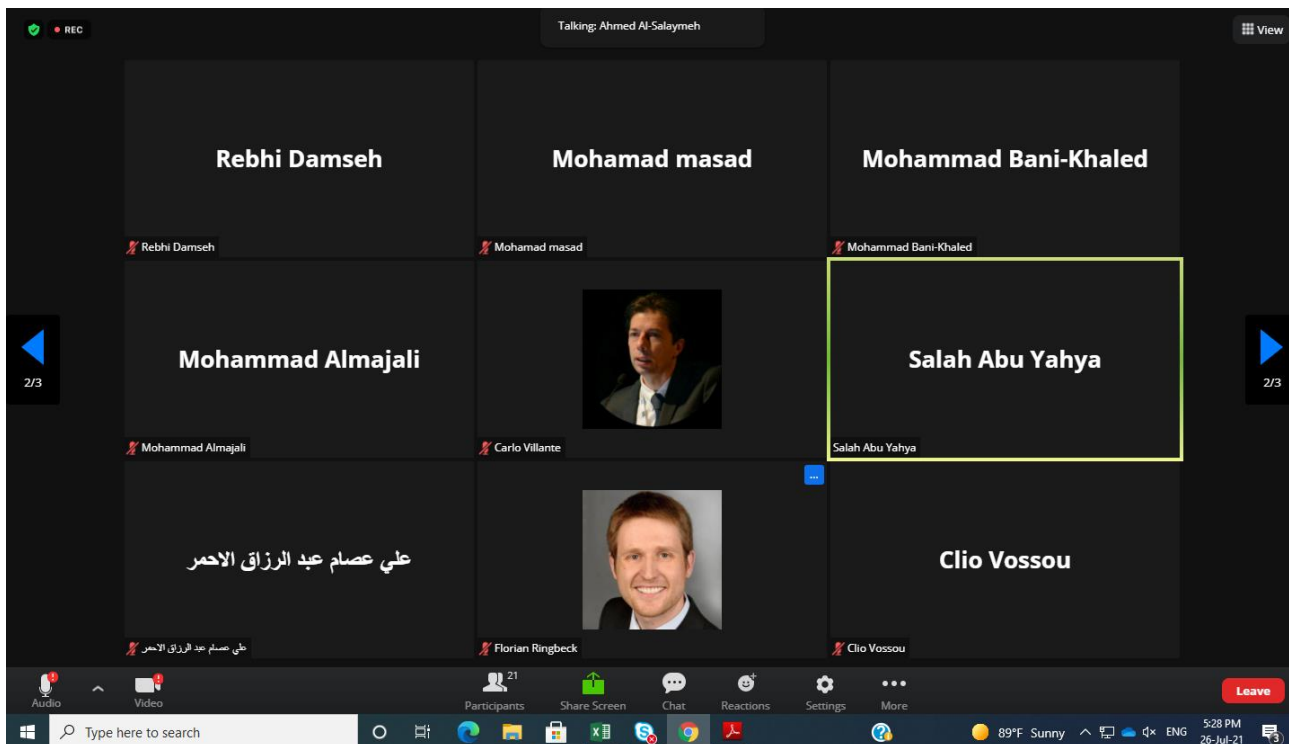
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The screenshot shows a Zoom meeting interface. The main window displays a presentation slide titled "Nickel-metal hydride battery (Ni-MH)". The slide content includes:

- Advantages: higher energy density than Ni-Cd, good cycle life, more environmentally friendly.
- Disadvantages: sensitive to overcharging, requires complex charging system, lower efficiency than Li-ion.
- Used in Toyota Prius, Honda Insight and Ford Escape.

Below the text are images of a silver Toyota Prius, a silver Ford Escape, and a green Ni-MH battery. The Zoom interface also shows a list of 14 participants on the right side of the screen.



The screenshot shows a Zoom meeting grid with several participants. The participants visible are:

- Rebhi Damsch
- Mohamad masad
- Mohammad Bani-Khaled
- Mohammad Almajali
- Carlo Villante
- Salah Abu Yahya (highlighted with a yellow border)
- علي عصام عبد الرزاق الاحمر
- Florian Ringbeck
- Clio Vossou

The Zoom interface at the bottom shows controls for audio, video, participants, share screen, chat, reactions, settings, and more. The system tray at the bottom right shows the date and time as 5:28 PM on 26-Jul-21.

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7 Video

<https://www.youtube.com/watch?v=DZKgfU9fVY>